



Secure Supplies
HYDROGEN
Electric Generator



n Biogas Generator Sets

(Cummins engine & Leroy Somer alternator, 400/230V, 50Hz, 3P4W)

	Prime(kwe)	40	60	80	80	100	120	160	
Item	Model	MC40B	MC60B	MC80B	MC80B	MC100B	MC120B	MC160B	
Spec.	prime power	kVA/kW	50/40	75/60	100/80	100/80	125/100	150/120	200/160
	COP Power	kVA/kW	44/35	63/50	81/65	81/65	100/80	125/100	163/130
	frequency	Hz	50	50	50	50	50	50	50
	rated voltage	V	400	400	400	400	400	400	400
	rated current (PRP/COP)	A	72.2/63.1	108.3/90.2	144.3/117.3	144.3/117.3	180.4/144.3	216.5/180.4	288.7/234.6
	power factor	COSΦ	0.8-1.0	0.8-1.0	0.8-1.0	0.8-1.0	0.8-1.0	0.8-1.0	0.8-1.0
Engine	brand	—	Secure Supplies						
	model	—	M-Cummins 6C (N/A)	M-Cummins 6BTAA (Turbo with intercooler)	M-Cummins 6CTAA (Turbo with intercooler)	M-Cummins N855 (N/A)	M- Cummins K19 (N/A)	M-Cummins NTAA855 (N/A)	M- Cummins KTA A19 (N/A)
	displacement	L	8.3	5.9	8.3	14	18.9	14	18.9
	speed	RPM	1,500	1,500	1,500	1,500	1,500	1,500	1,500
	compression ratio	—	10:1	10:1	10:1	10:1	10:1	10:1	10:1
	bore*stroke	mm*mm	114*135	102*120	114*135	140*152	159*159	140*152	159*159
	starting method	—	electric start	electric start	electric start	electric start	electric start	electric start	electric start
	cooling method	—	water cooled	water cooled	water cooled	water cooled	water cooled	water cooled	water cooled
	oil capacity	L	18.9	14.2	18.9	36	38	36	38
	oil cooler	—	with	with	with	with	with	with	with
	mixer	—	MPS-56	MPS-56	MPS-56	MPS-140	MPS-140	MPS-140	MPS-140
	ignition system	—	AFS	AFS	AFS	Altronic or Motortech	Altronic or Motortech	Altronic or Motortech	Altronic or Motortech
speed governor	—	Woodward	Woodward	Woodward	Woodward	Woodward	Motortech	Motortech	
Gas train	biogas filter	—	KromSchroeder, Germany						
	Solenoid Valva	—	KromSchroeder, Germany, 24V						
	zero-pres. regulator	—	KromSchroeder, Germany						
Alternator	brand	—	Leroy Somer	Leroy Somer	Leroy Somer	Leroy Somer	Leroy Somer	Leroy Somer	Leroy Somer
	model	—	LSA 42.3 M8	LSA 43.2 L8	LSA 44.2 VS45	LSA 44.2 VS45	LSA 44.2 S75	LSA 44.2 M95	LSA 46.2 M5
	phase	—	3 phases, 4 wires	3 phases, 4 wires	3 phases, 4 wires	3 phases, 4 wires	3 phases, 4 wires	3 phases, 4 wires	3 phases, 4 wires
	connecting method	—	SAE standard	SAE standard	SAE standard	SAE standard	SAE standard	SAE standard	SAE standard
	way of excitation	—	brushless, self-excitation	brushless, self-excitation	brushless, self-excitation	brushless, self-excitation	brushless, self-excitation	brushless, self-excitation	brushless, self-excitation
	insulation grade	—	H level	H level	H level	H level	H level	H level	H level
Generator Set	control cabinet	—	9902	9902	9902	9902	9902	9902	9902
	controller type	—	DeepSea DSE7320	DeepSea DSE7320	DeepSea DSE7320	DeepSea DSE7320	DeepSea DSE7320	DeepSea DSE7320	DeepSea DSE7320
	display	—	LCD	LCD	LCD	LCD	LCD	LCD	LCD
	fuel	—	biogas	biogas	biogas	biogas	biogas	biogas	biogas
	gas inlet pressure	kPa	2-10 Kpa	2-10 Kpa	2-10 Kpa	2-10 Kpa	2-10 Kpa	2-10 Kpa	2-10 Kpa
	dimension (open type)	mm*mm*mm	2400*1150*1400	2250*1000*1300	2400*1150*1400	3000*1100*1750	3500*1550*1900	3000*1100*1750	3500*1550*1900
	net weight (open type)	kg	1,600	1600	1800	2000	2000	2200	2800

	protection level	—	IP23	IP23	IP23	IP23	IP23	IP23	IP23
	warranty period	hrs.	2000	2000	2000	2000	2000	2000	2000
	biogas consumption	m3/kW.h	0.52	0.48	0.49	0.49	0.49	0.47	0.45
	Genset Electrical Efficiency	%	32	34.6	34.3	34.2	33.8	35.5	36.70
	Genset Thermal Efficiency	%	49.4	48.1	48.2	46.8	47.1	45.8	45.60
	Genset Total Efficiency	%	81.4	82.7	82.5	81	80.9	81.3	82.30
	FOB Price	US\$	\$21,530.00	\$23,250.00	\$29,870.00	\$39,580.00	\$67,680.00	\$40,830.00	\$68,450.00
	with heat recovery system (heat recovery from jacket water and exhaust gas)	add	\$5,896.00	\$6,880.00	\$7,600.00	\$7,950.00	\$8,940.00	\$12,120.00	\$16,290.00
	with soundproof enclosure	add	\$4,152.00	\$3,667.00	\$4,152.00	\$6,942.00	\$9,308.00	\$6,942.00	\$9,308.00
	Grid Synch.Control Cabinet (with DSE controller 8620)	add	\$8,950.00	\$9,450.00	\$9,648.00	\$9,954.00	\$10,250.00	\$10,342.00	\$10,652.00
	Remote Radiator for CHP	add	\$2,985.00	\$3,320.00	\$3,320.00	\$3,320.00	\$3,903.00	\$5,065.00	\$5,640.00
	FOB Price / Silent CHP with Grid Cabinet & Remote Radiator	US\$	\$43,513.00	\$46,567.00	\$54,590.00	\$67,746.00	\$100,081.00	\$75,299.00	\$110,340.00

Notes:1.The above price is based on 0.8PF, 60Hz, 3P4W, 480V/277V, other voltage grade or single-phase alternator is available on request.

2. The above price is based on open type.

3. Discount is available according to gensets' model and quantity. 3% off for a 20ft container and 5% for a 40ft container.

4. Price of other brand of alternator (Stamford, Marathon, or etc) or controller (ComAp) is available on request.

5. Additional price for parallel control system system and maintenance-free storage battery is available on request.

6. Validity of the quotation: will be advised on your purchase order request to danieldonatelli1@gmail.com

7. Explanation to the MODEL: -(1) The Model #: the 1st M: MiracleGen, the 2nd M: MAN, Y: Y Serial Gas Engine, C: Cummins Gas Engine (2) COP: Continuous Power Rating (24-7-365) (3) N/A: Naturally Aspirated

